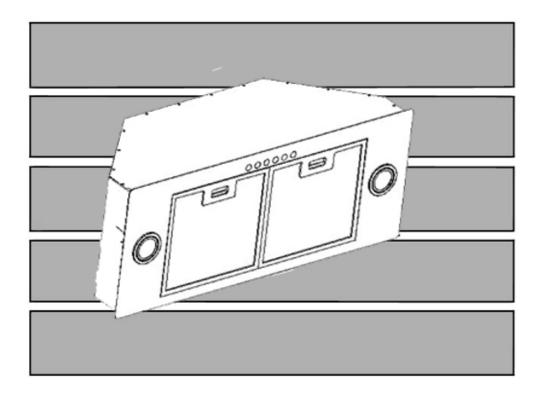


Model No.: IN2730SF

# **IN-027 SERIES**



# INSTALLATION INSTRUCTIONS AND OPERATION MANUAL

# - READ AND SAVE THESE INSTRUCTIONS -

#### **CONTENTS**

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### - READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING -

ALL WIRING MUST BE DONE BY A PROFESSIONAL AND IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.



#### IMPORTANT SAFETY INSTRUCTIONS

#### - PLEASE READ THIS SECTION CAREFULLY BEFORE INSTALLATION -

# **AWARNING**: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY, OBSERVE THE FOLLOWING:

- 1) Installation and electrical wiring must be done by qualified professionals and in accordance with all applicable codes and standards, including fire-rated construction.
- 2) When cutting or drilling into wall or ceiling, be careful not to damage electrical wiring or other hidden utilities.
- 3) Ducted fans must be vented to the outside.
  - a) Before servicing or cleaning unit, open the light panel and SWITCH POWER OFF AT SERVICE PANEL.
  - b) Clean all grease laden surfaces frequently. To reduce the risk of fire and to disperse air properly, make sure to vent air outside. DO NOT vent exhaust air into wall spaces, attics, crawl spaces or garages.

#### NOTE

- This warranty is invalid without an authorized agent's receipt or if unit is damaged due to misuse, poor installation, improper use, mistreatment, negligence or any other circumstances beyond the control of KOBE RANGE HOODS authorized agents. Any repair carried out without the supervision of KOBE RANGE HOODS authorized agents will automatically void the warranty.
- KOBE RANGE HOODS will not be held responsible for any damages to personal property or real estate or any bodily injuries whether caused directly or indirectly by the range hood.

# **AWARNING**: TO REDUCE THE RISK OF PERSONAL INJURY IN THE EVENT OF A RANGE TOP GREASE FIRE:

- Keep all fan, baffle/spacer/filter/oil tunnel/oil container and grease-laden surfaces clean. Grease should not be allowed to accumulate on fan, baffle/spacer/filter/oil tunnel/oil container.
- Always turn hood ON when cooking.
- Use high settings on cooking range ONLY when necessary.
- Do not leave cooking range unattended when cooking.
- Always use cookware and utensils appropriate for the type and amount of food prepared.
- Use this unit only in the manner intended by the manufacturer.
- Before servicing, switch power off at service panel and lock service panel (if possible) to prevent power from switching on accidentally.
- Clean ventilating fan frequently.

#### What to Do In The Event Of a Range Top Grease Fire

- SMOTHER FLAMES with a tight fitting lid, cookie sheet, or metal tray, and then turn off the burner.
   KEEP FLAMMABLE OR COMBUSTIBLE MATERIAL AWAY FROM FLAMES. If the flames do not go out immediately, EVACUATE THE AREA AND CALL THE FIRE DEPARTMENT or 911.
- NEVER PICK UP A BURNING PAN You May Get Burned.
- DO NOT USE WATER, including wet dishcloths or towels a violent steam blast will result.
- Use an extinguisher ONLY if:
  - a) You have a Class A, B, C extinguisher and know how to operate it.
  - b) The fire is small and contained in the area where it started.
  - c) The fire department has been called.
  - d) You can fight the fire with your back to an exit.

#### What to Do If You Smell Gas

- Extinguish any open flame.
- Do not try to turn on the lights or any type of appliance.
- Open all doors and windows to disperse the gas. If you still smell gas, call the Gas Company and Fire Department right away.

# **A**CAUTION

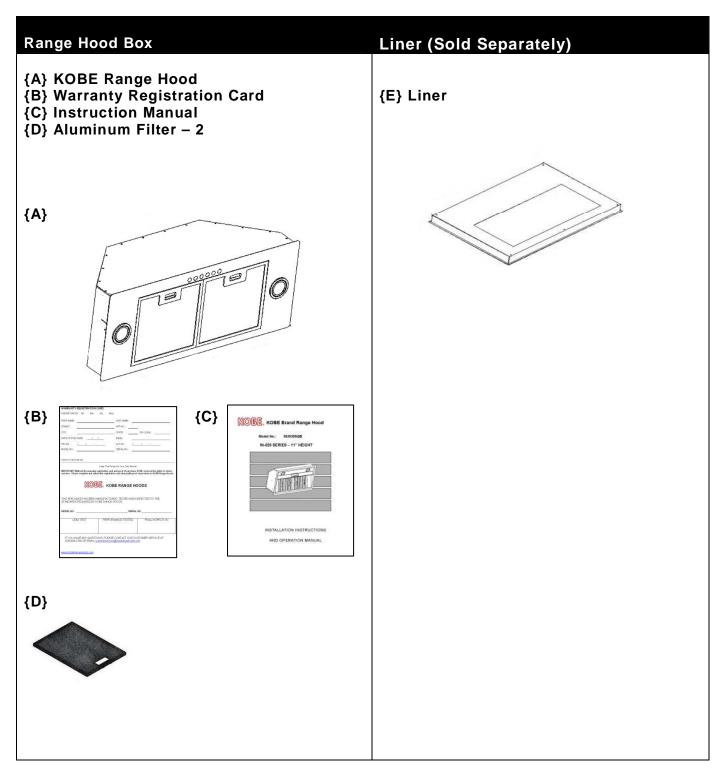
- 1) For general ventilation use only. Do not use to exhaust hazardous or explosive materials and vapors.
- 2) To reduce the risk of fire, use only metal ductwork. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) to prevent back drafting.
- 3) Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and code authorities.
- 4) Activating any switch on may cause ignition or an explosion.
- 5) Due to the size and weight of this hood, two people installation is recommended.



ELECTRICAL SHOCK HAZARD – Can result in serious injury or death. Disconnect appliance from electric power before servicing. If equipped, the fluorescent light bulb contains small amounts of mercury, which must be recycled or disposed of according to Local, State, and Federal Codes.

#### **COMPONENTS OF PACKAGE**

(Must keep all material for returns or refunds)



♦ FOR MORE INFORMATION, PLEASE VISIT OUR WEBSITE <u>WWW.KOBERANGEHOODS.COM</u> OR CONTACT KOBE RANGE HOODS AT (626) 350-1355.

#### **INSTALLATION**

#### PLEASE READ ENTIRE INSTRUCTIONS BEFORE PROCEEDING

#### **Calculation before Installation**

To calculate installation, please refer to TABLE 1. (All calculation in inches.)

#### - FOR UNDER THE CABINET -

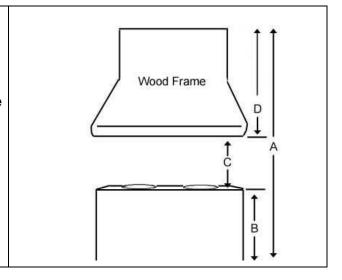
#### TABLE 1

A = Height of Floor to Ceiling

B = Height of Floor to Counter Top (Standard: 36")

C = Height of Counter Top to Wood Frame Bottom (Recommended 27" to 30")

D = Height of Wood Frame



# **A**SAFETY WARNING

HOOD MAY HAVE VERY SHARP EDGES; PLEASE WEAR PROTECTIVE GLOVES IF REMOVING ANY PARTS FOR INSTALLING, CLEANING OR SERVICING.

NOTE: BE CAREFUL WHEN USING ELECTRICAL SCREWDRIVER, DAMAGE TO THE HOOD MAY OCCUR.

#### **Preparation Before Installation**

NOTE: TO AVOID DAMAGE TO YOUR HOOD, PREVENT DEBRIS FROM ENTERING THE VENT OPENING.

- Decide the location of the venting pipe from the hood to the outside. Refer to Figure 1.
- A straight, short vent run will allow the hood to perform more efficiently.
- Try to avoid as many transitions, elbows, and long run as possible. This may reduce the performance of the hood.
- Temporarily wire the hood to test for proper operation before installing.
- Important: Peel protective film off the hood, if any.
- Use duct tape to seal joints between pipe sections.

♠ CAUTION: If moving the cooking range is necessary to install the hood, turn off the power in an electric range at the main electrical box. SHUT OFF THE GAS BEFORE MOVING A GAS RANGE. And use a protective covering to protect cooktop and/or countertop from damage.

#### **Custom Hood Preparation**

- The custom hood frame must be sized to shape and the weight of the insert. Refer to Measurements and Diagrams on Page 11.
- 2. It must have a sturdy base (1/2 inch thick plywood recommended) to sustain the weight of insert.
- 3. If an optional liner will be installed, the side of the wood cabinet must be sturdy (1/2 inch thick plywood recommended).
- 4. It is recommended to install a rear and front stud support. Refer to Figure 2. The stud supports are located 1-1/2" up from the base of the wood frame.

#### Liner Installation

- The custom/wood hood must have a sturdy base to accommodate the cut-out for the inset. The base must be recessed to accommodate the height of the liner (See liner dimension on Page 12)
- 6. Secure the liner to the bottom of the base using screws (not included) appropriate for the size and material of vour wood frame.
- 7. Position the rear section of the liner so that it aligns with the back edge of the custom wood frame. Use a pen to trace the outline of the pre-cut area. Remove the liner and proceed to Hood Preparation Before Installation on Page 6.
- 8. Install the liner with 5 screws (not provided).

Figure 1

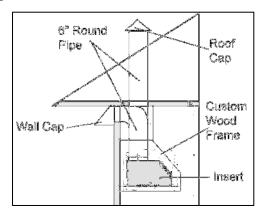


Figure 2

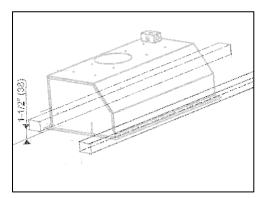
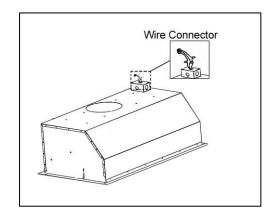


Figure 3



### Wiring to Power Supply

#### **ASAFETY WARNING**

RISK OF ELECTRICAL SHOCK. THIS RANGE HOOD MUST BE PROPERLY GROUNDED. MAKE SURE THIS IS DONE BY QUALIFIED ELECTRICIAN IN ACCORDANCE WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL CODES. BEFORE CONNECTING WIRES, SWITCH POWER OFF AT SERVICE PANEL AND LOCK SERVICE PANEL TO PREVENT POWER FROM BEING SWITCHED ON ACCIDENTALLY.

- Temporarily wire the hood to test for proper operation before installing. If the insert does not operate, check the circuit breaker or house fuse. If the insert is still not working, disconnect the power supply and check the continuity of all wiring connections.
- 10. Connect electrical wires.
- 11. Connect three wires (black, white and green) to house wires and cap with wire connectors. Connect wires according to their colors (i.e. black to black, white to white, and green to green). See Figure 3.
- 12. Store wires in the wiring box.
- 13. Determine the proper location for the Power Supply Cable. Make a wiring access hole using a drill bit. Install the wire cable and seal the gap around hole. Note: Connect all electrical wires before installing insert. DO NOT turn on the power until installation is complete.

Figure 4

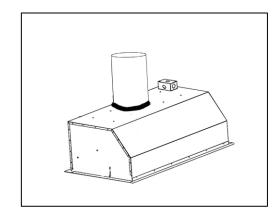
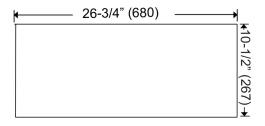


Figure 5



#### **Duct Work Installation**

- 14. Use 6" steel pipe (follow building codes in your area) to connect the ducting on the hood to the ductwork above. Use duct tape to seal and secure joints as shown in Figure 4.
- 15. Please refer to local codes for the usage of the damper (included). If necessary, remove the damper mechanism and install as exhaust connector.

# **Hood Preparation Before Installation**

- **A** CAUTION: If moving the cooking range is necessary to install the hood, turn off the power in an electric range at the main electrical box. SHUT OFF THE GAS BEFORE MOVING A GAS RANGE.
- 16. Determine and mark the centerlines on the base of the wood frame where the insert will be installed.
- 17. Determine and make all necessary cuts in the wall or ceiling for the ductwork. Note: Install the duct work before installing the insert.
- 18. Cut out the opening where the insert will be installed. (Figure 5)

### **Hood Installation**

- Figure 6
- 19. Release the screws located on each side of the insert. Adjust the level of the hood casing support according to the thickness of the base (1/2 thickness plywood recommended). Tighten the screws to secure as shown on Figure 6.
- 20. Install the insert inside the custom wood frame.
- 21. Make sure the hood casing support is secure before releasing.
- 22. For a more secure installation, use the mounting holes for the rear support which are located at 1-1/2" (38mm) up from the insert base (screws not provided).

# **ACAUTION**: MAKE SURE HOOD IS SECURE BEFORE RELEASING.

#### Final Assembly

- 23. Install Aluminum Filters. Insert the filters towards the back of the unit and push up.
- 24. Make sure the Aluminum Filters are secure before releasing.



### **OPERATING INSTRUCTIONS**

This KOBE hood is equipped with five electronic push buttons with LED indicator, double powerful centrifugal squirrel cage with aluminum filter, two bright 12-volt 20-watt halogen lights.

The five control buttons are Power Control (On/Off), Speed Control (High, Medium, & Low), and Light Control. Refer to Figure 7.

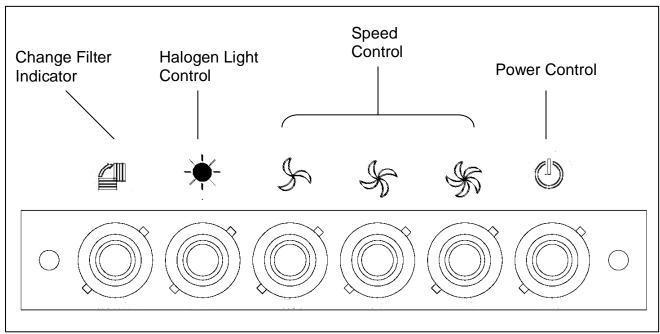


Figure 7

Note: For best results, turn hood to QuietMode™ prior to any preparation or cooking. Adjust speed as needed.

#### Power Control

Press Power Control to turn On/Off the hood.

This unit equipped with 3-minute delay shutoff. To activate this feature, press Power Control button once, panel LED lights will flash and power will be completely shut off after 3 minutes.

Press Power Control button twice, the fans will be shut off immediately.

#### **Speed Control**

Press Speed Control to activate Low, Medium, & High Speed.

#### Light Control

(Light control is separate from ON/OFF control. Turning power off will not turn lights off.)

Press Light control to turn lights ON.

(Each press of Light Control will cycle the light intensity through high, low, and off.)

#### Aluminum Filter Change Indicator

The indication under symbol will indicate when aluminum filter needs cleaning. Remove to clean the aluminum filter.

(To purchase replacement filters, please contact your local KOBE dealer or call 626-350-1355)

#### **MAINTENANCE**

## **A**SAFETY WARNING

NEVER PUT YOUR HAND INTO AREA HOUSING THE FAN WHILE THE FAN IS OPERATING.

#### **Cleaning Hood Surface**

# **ACAUTION**: NEVER USE ABRASIVE CLEANERS, PADS, OR CLOTHS.

For optimal operation, clean range hood and all baffle/spacer/filter/oil tunnel/oil container regularly.

- \*\*\* Regular care will help preserve the appearance of the hood.
  - Use only mild soap or detergent solutions. Dry surfaces using soft cloth. DO NOT USE PAPER TOWELS.
  - 2. If hood looks splotchy (stainless steel hood), use a stainless steel cleaner to clean the surface of the hood. Avoid getting cleaning solution onto or into the control panel. Follow directions of the stainless steel cleaner. Caution: Do not leave on too long as this may cause damage to hood finish. Use soft towel to wipe off the cleaning solution, gently rub off any stubborn spots. Use dry soft towel to dry the hood.
  - 3. DO NOT allow deposits to accumulate or remain on the hood.
  - 4. DO NOT use ordinary steel wool or steel brushes. Small bits of steel may adhere to the surface and cause rusting.
  - 5. DO NOT allow salt solutions, disinfectants, bleaches, or cleaning compounds to remain in contact with stainless steel for extended periods. Many of these compounds contain chemicals, which may be harmful. Rinse with water after exposure and wipe dry with a clean cloth.

#### **To Clean Aluminum Filter**

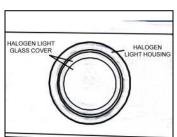
- 1. Remove all the aluminum filters.
- 2. Wash with warm soapy water. Dry thoroughly before returning into place.

#### To Replace Halogen Light Bulbs

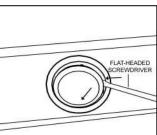
CAUTION: HALOGEN LIGHT UNIT MAY BE HOT! WAIT UNTIL UNIT IS COOL.

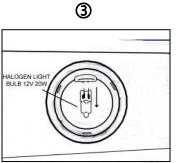
NOTE: DO NOT TOUCH HALOGEN LIGHT WITH BARE HANDS, WHICH MIGHT CAUSE OVER HEAT AND SHORTEN THE LIFT OF LIGHT BULBS.

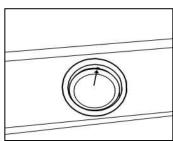












4

- 1. Make sure all controls are off, and range hood is unplugged.
- 2. Place the flat-headed screwdriver into the groove of the halogen light glass covering and the housing.
- 3. Pop out the halogen light glass covering.
- 4. Gently pull out the defective light bulb and discard. Light bulbs should be 12V 20W maximum.
- 5. Using a cloth, hold the new light bulb and push securely into light socket.
- 6. Return halogen light glass cover to the housing.
- 7. Turn range hood ON to test for operation.

# **SPECIFICATIONS**

MODEL / SIZE	IN2730SF
--------------	----------

COLOR 16-Gauge Commercial Stainless Steel

CONSUMPTION / AMPERE 240W / 2A VOLTAGE 120V 60Hz

NUMBER OF MOTORS

FAN TYPE: CENTRIFUGAL Double Horizontal Squirrel Cage

EXHAUST Top 6" Round w/ Damper

CONTROLS 5 Push-Button

- 3-Minute Delay Shutoff

HALOGEN LIGHTS 12V 20W Max. x 2

HOOD DIMENSION 27-1/2" x 11-3/8" x 9-3/4"

(W X D X H)

OPTIONAL ACCESSORIES Liner: INL36211A (36" X 21" X 2")

(W X D X H)

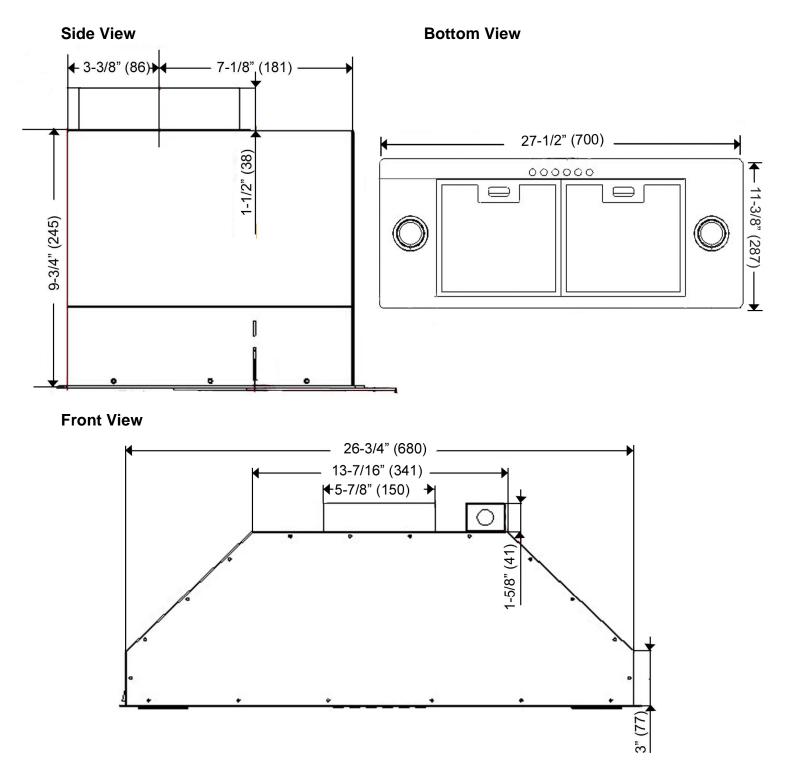
HOOD WEIGHT (lbs)		<u>Net</u>	<u>Gross</u>
	IN2730SQB	23.8	31.3
Blower Air Capacity (cfm)*	Low	Medium	High
	300	380	500
Sone**	2.0	2.5	4.0
dB	50	53	60

<sup>\*</sup>In House Test Static Pressure "0". \*\*Specifications subject to change without notice.

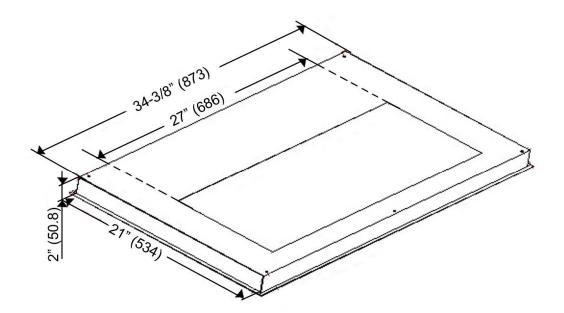
# **MEASUREMENTS & DIAGRAMS**

- All () are in millimeter.
  All inch measurements are converted from millimeters. Inch measurements are estimated.

MODEL NO: IN2730SF



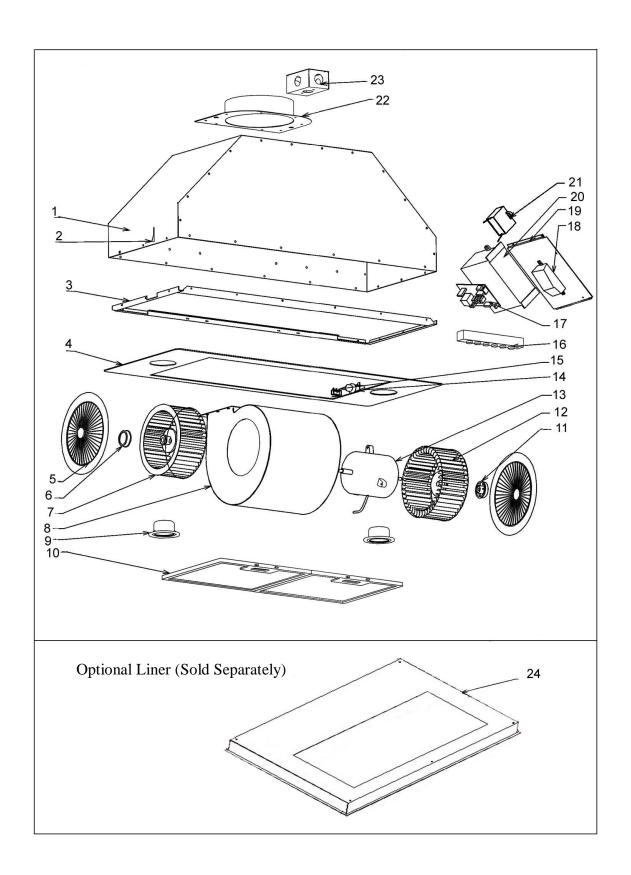
# Stainless Steel Liner (Sold Separately) Model No. INL36211A



# **PARTS LIST**

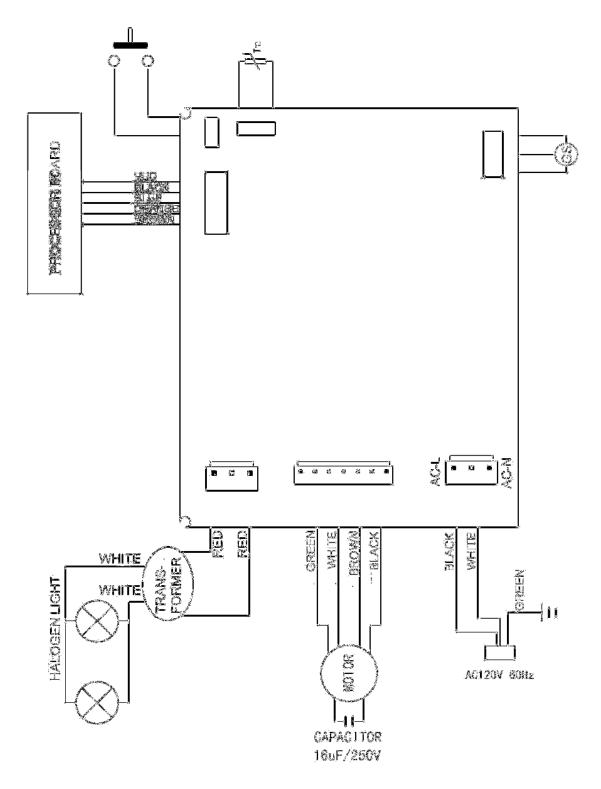
MODEL NO: IN2730SF

NO.	DESCRIPTION	MODEL/SIZE	PART NO.
1	Hood Casing		SY-027-3-001
2	Hood Casing Support		SY-027-5-002
3	Bottom Casing Support		SY-027-3-002
4	Bottom Casing		SY-027-5-003
5	Blower Cover		SY-027-3-004
6	Left Locknut		SY-027-5-051
7	Left Squirrel Cage		SY-027-5-052
8	Air Chamber		SY-027-5-053
9	Halogen Light Housing		SY-027-3-003
10	Aluminum Filters		SY-027-3-005
11	Right Locknut		SY-027-5-056
12	Right Squirrel Cage		SY-027-5-055
13	Motor		SY-027-5-054
14	Indicator Sensor		SY-027-3-006
15	ISC		SY-027-5-058
16	Control Unit		SY-027-3-008
17	Processor Board		SY-027-5-074
18	Transformer		SY-027-5-075
19	Electronic Support Panel		SY-027-5-016
20	Processor Board Box		SY-027-5-031
21	Capacitor		SY-027-5-057
22	Exhaust Connector		SY-027-5-007
23	Wiring Box		SY-027-5-009
Optional Li	iner		
Model No.			
24	Liner	INL36211A	



# **CIRCUIT DIAGRAM**

MODEL NO.: IN2730SF



#### **DISCLAIMER**

1. CAREFULLY INSPECT ALL ITEMS FOR DAMAGES BEFORE ACCEPTING DELIVERY. NOTE ANY DAMAGES ON THE FREIGHT BILL OR EXPRESS RECEIPT. REQUEST NAME AND SIGNATURE OF THE CARRIER'S AGENT AND KEEP COPY TO SUPPORT YOUR CLAIM.

Upon acceptance of items, owner assumes responsibility for its safe arrival. Report damages to the carrier and file a claim immediately. Failure to do so may result in the denial of your claim. The carrier will furnish you with necessary forms for filing a claim.

DAMAGES CAUSED DURING TRANSIT ARE NOT COVERED UNDER OUR WARRANTY.

2. PLEASE INSPECT CONTENTS OF PACKAGE(S) CAREFULLY UPON RECEIVING!

We must be notified in writing of any damages and/or missing parts within the allocated days upon your receipt of package(s). Contact your local KOBE dealer or distributor or call KOBE for the time limit.

CLAIMS WILL NOT BE ACCEPTED AFTER THE ALLOCATED DAYS.

NOTE: ITEMS WERE THOROUGHLY TESTED AND CAREFULLY PACKED IN OUR FACTORY BEFORE SHIPPING.

 Products must be returned in good working condition with ALL original parts and documentation packed in ALL original cartons, fillers and shipping cartons. A restocking fee of 25% will be charged for all approved return(s).

EXCHANGES OR RETURNS MAY NOT BE ACCEPTED IF ANY PACKAGING IS MISSING.

- 4. MAKE SURE TO INSPECT THE HOOD FOR DAMAGES AND DEFECTS BEFORE INSTALLATION. Appearance flaws of the hood found after installation and not affecting hood performance is not covered under our warranty for returns or exchanges. Service visits not covered under warranty will carry a service charge.
  - A) Before Installation: Return for exchange or refund (please see above for acceptable returns).
  - B) After Installation: **NO** exchange or refund.

#### WARRANTY

#### WARRANTY CERTIFICATE

KOBE Range Hoods, Inc. warrants all products manufactured or supplied by it to be free from defects in workmanship and materials. Its obligations pursuant to this warranty are limited to a period of two years from the date of purchase and to the repair or replacement at its option and subject to the terms and conditions stated below, of any component part, which its examination shall disclose to be so defective.

#### TWO-YEAR WARRANTY SERVICE PERIOD

Any covered failure occurring within two years of original purchase arising from defective workmanship or material in manufacture will be repaired (or at our discretion, replaced) free of charge by an authorized KOBE Range Hoods Agent or KOBE Range Hoods as applicable. Keep proof of purchase (or original invoice) handy for inspection.

If the range hood is sold by the original purchaser during the warranty period the new owner is protected until expiration of the original purchaser's warranty.

#### **CONDITIONS**

The following conditions apply only in relation to the warranty expressly given in this certificate.

- 1) This warranty applies only:
  - a) within U.S.A. and Canada.
  - b) to range hoods used for PRIVATE SINGLE FAMILY USE (if used for COMMERCIAL or MULTIPLE FAMILY USE or other purposes, warranty will be voided).
- 2) Repair of any fault to be provided under this warranty shall not be provided:
  - a) if the identification number attached to the range hood has been altered, rendered illegible or removed:
  - b) if notice of the defect has not been given within the period applicable;
  - c) for failure of light bulbs or heat lamps;
  - d) for physical damage;
  - e) for surfaces damaged by use of improper chemical cleaning agents:
  - f) if the appliance has been:
    - i) subject to misuse, abuse, negligence, accident, incorrect installation or failure to follow the operating instructions;
    - ii) connected to improper, inadequate or faulty electricity service or exhaust ducts, flues or duct cover, or operated using incorrect or contaminated lubricants;
    - iii) installed, maintained or operated otherwise than in accordance with the instructions furnished by KOBE Range Hoods including the improper use of detergents, bleaches, or cleaners.
  - g) for damage to range hood during transit, delivery, installation or removal;
  - h) for damage by or resulting from attempted repairs conducted by anyone other than our Authorized Service Agent.
  - i) noise or vibration caused by improper installation of range hood and/or damper.
- 3) The purchaser shall be responsible for any expenses involved in making the range hood readily accessible for servicing and where the range hood is installed outside the main sales territory of the retailer or service territory of the nearest approved KOBE Range Hoods Agent as applicable, for any traveling expenses and any costs of transporting the range hood or parts thereof to and from the dealer or Service Agent

- 4) The purchaser must produce proof of purchase together with this warranty certificate when making the claim.
- 5) Damages caused during shipment are not covered under our warranty.

#### **CONSEQUENTIAL DAMAGE**

The warrantor is not responsible for any consequential damage. SOME STATES DO NOT ALLOW THE EXCLUSION OF CONSEQUENTIAL DAMAGE SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

#### **IMPLIED WARRANTIES/STATE LAW**

Any implied warranties, including the implied warranty of merchantability and fitness for purpose, imposed on the sale by the laws of the state of sale are limited to two year from the date of original purchase. Some states do not allow limitations on the duration of implied warranties. This warranty gives you specific legal rights, and may also have rights, which vary from state to state.

#### **SERVICE**

For service contact:

KOBE Range Hoods 10505 Valley Blvd, Suite 302 El Monte, CA 91731 U.S.A

Tel: (626) 350-1355 Fax: (626) 350-1976

Email: customer.service@KOBERangeHoods.com

Website: www.KOBERangeHoods.com

#### PRODUCT REGISTRATION

#### Register Your Product!

Any covered failure occurring within two years of original purchase arising from defective workmanship or material in manufacture will be repaired or at our option the unit will be replaced free of charge by an authorized KOBE Range Hoods Agent or KOBE Range Hoods as applicable. Keep proof of purchase (original invoice) handy for inspection.

If the range hood is sold by the original purchaser during the warranty period the new owner is protected until expiration of the original purchaser's warranty. See warranty section for complete warranty coverage information.

This appliance has been manufactured, tested, and inspected to the standards required by KOBE Range Hoods.

# PLEASE MAIL IN YOUR WARRANTY REGISTRATION CARD AND PROOF OF PURCHASE TO:

KOBE Range Hoods 10505 Valley Blvd, Suite 302 El Monte, CA 91731

#### RECORD THE FOLLOWING INFORMATION FOR YOUR RECORD:

Model No	 		 
Serial No	 		 
Purchased Date	 //	<u> </u>	
Purchased From:			
	_		
	_		

IMPORTANT: PLEASE KEEP A COPY OF YOUR SALE RECEIPT OR INVOICE HANDY WHEN REQUESTING SERVICE.



http://www.KOBERangeHoods.com

This KOBE hood is made for use in the USA and CANADA only. We do not recommend using this hood overseas as the power supply may not be compatible and may violate the electrical code of that country. **Using a KOBE hood overseas is at your own risk and will void your warranty.**